

FILE NOTATIONS

Entered in N I D File ✓

Entered On S R Sheet

Location Map Pinned ✓

Card Indexed ✓

I W R for State or Fee Land

Checked by Chief

Copy N I D to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 4/8/77 S.I. Location Inspected

OW WW TA Bond released

GW OS PA State of Fee Land

LOGS FILED

Driller's Log ✓

Electric Logs (No.) ✓

E I E-I GR GR-N Micro

Lat. Mi-L Sonic Others

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SLC - 045051 a
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
2. NAME OF OPERATOR Mountain Fuel Supply Company		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
3. ADDRESS OF OPERATOR P. O. Box 1129 Rock Springs, Wyoming 82901		8. FARM OR LEASE NAME Unit Well
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1584' FSL, 2155' FEL NW SE At proposed prod. zone		9. WELL NO. 28-S
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 41 miles south of Rock Springs, Wyoming		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 264' -	16. NO. OF ACRES IN LEASE 640	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW SE 22-3N-24E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 650' Unit #12	19. PROPOSED DEPTH 6025'	12. COUNTY OR PARISH Daggett
21. ELEVATIONS (Show whether DP, RT, GR, etc.) GR 6553'		13. STATE Utah
23. PROPOSED CASING AND CEMENTING PROGRAM		17. NO. OF ACRES ASSIGNED TO THIS WELL -
20. ROTARY OR CABLE TOOLS Rotary		22. APPROX. DATE WORK WILL START* After Unit #27-S

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	9-5/8" new	36# K-55	300'	180 sx, 3% CaCl
8-3/4	7" new	23# K-55	6025'	To be determined

We would like to drill the subject well to an estimated depth of 6025', anticipated formation tops are as follows: Mancos at the surface, Frontier at 5464', Mowry at 5675', and Dakota at 5825'.

Mud will be adequate to contain formation fluids and in sufficient quantities to efficiently drill the well; blowout preventers will be checked daily and pressure tested after each string of casing is set; 1 core (50' in Mowry, 50' in Dakota), no DST's; no mud logging unit; 20 days drilling time; no abnormal temperatures, pressures, or H₂S anticipated; probably run DIL, Sonic, Density, and CNL logs.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 1-31-77

BY: *Clay B. Fright*

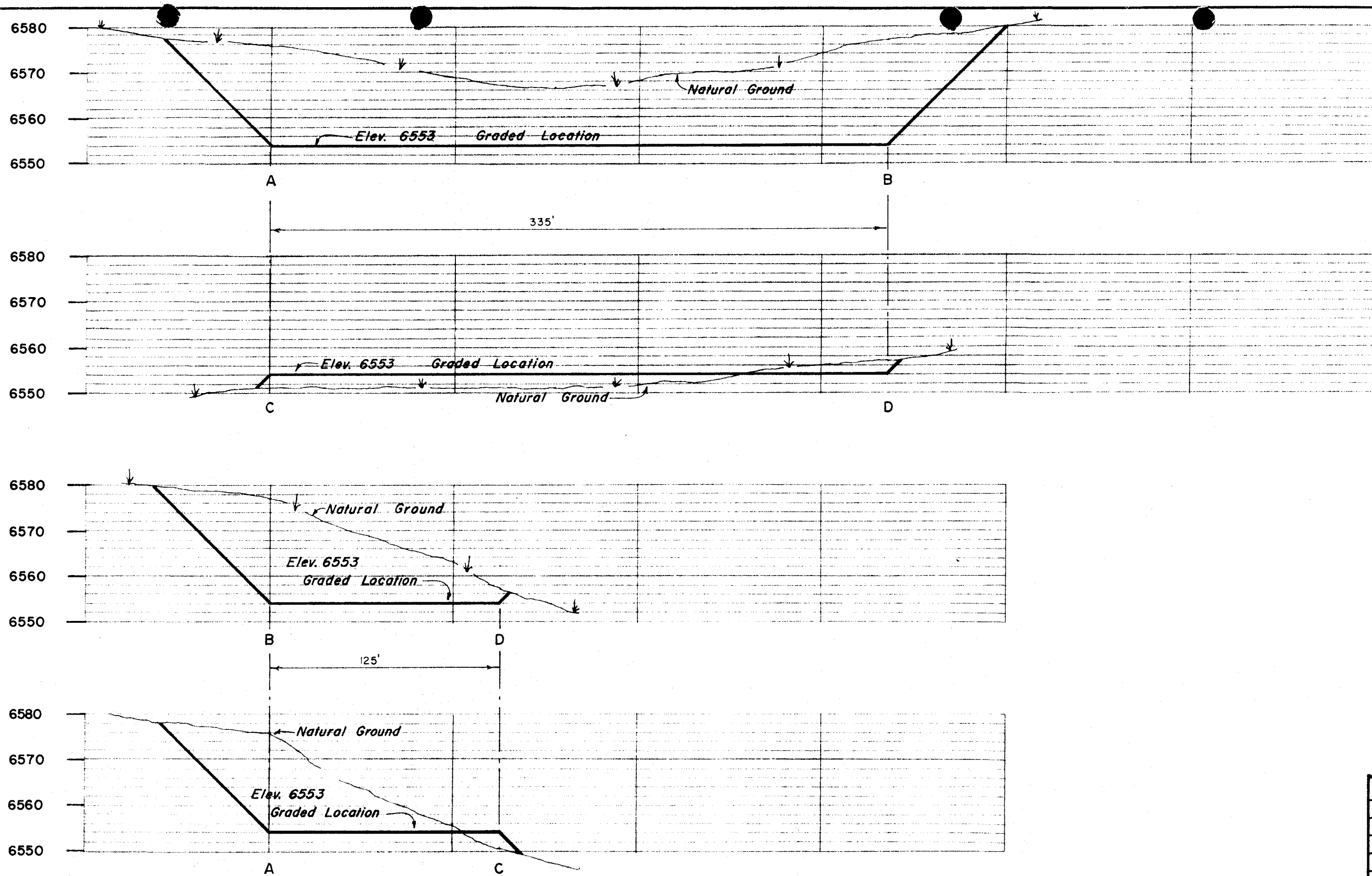
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *G. L. Myers* TITLE Manager, Drilling and Petroleum Engineering DATE Jan. 25, 1977

(This space for Federal or State office use)

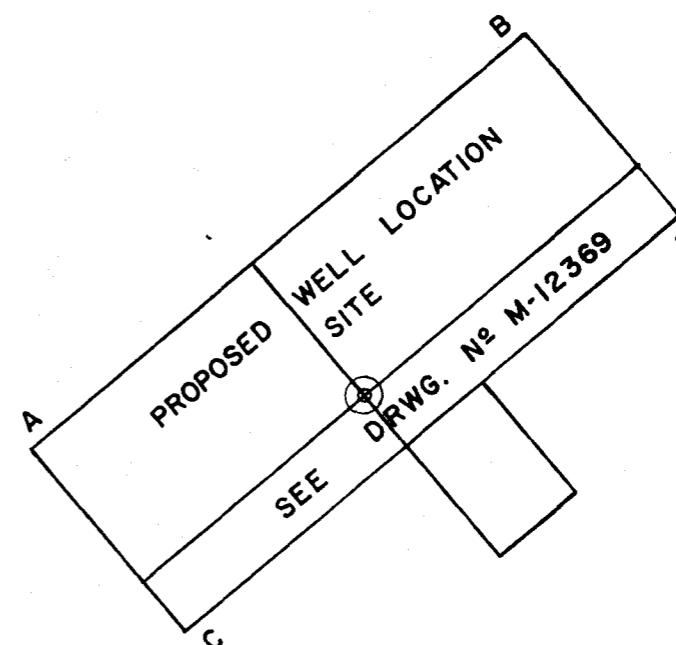
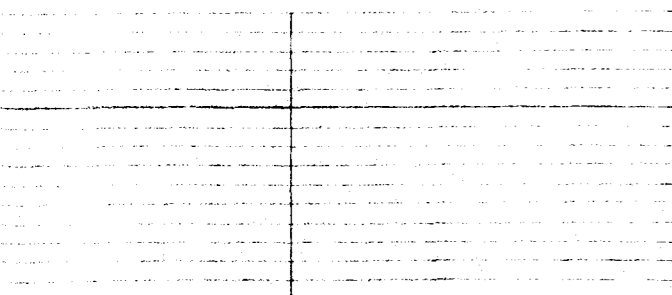
PERMIT NO. 43-009-30020 APPROVAL DATE

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:



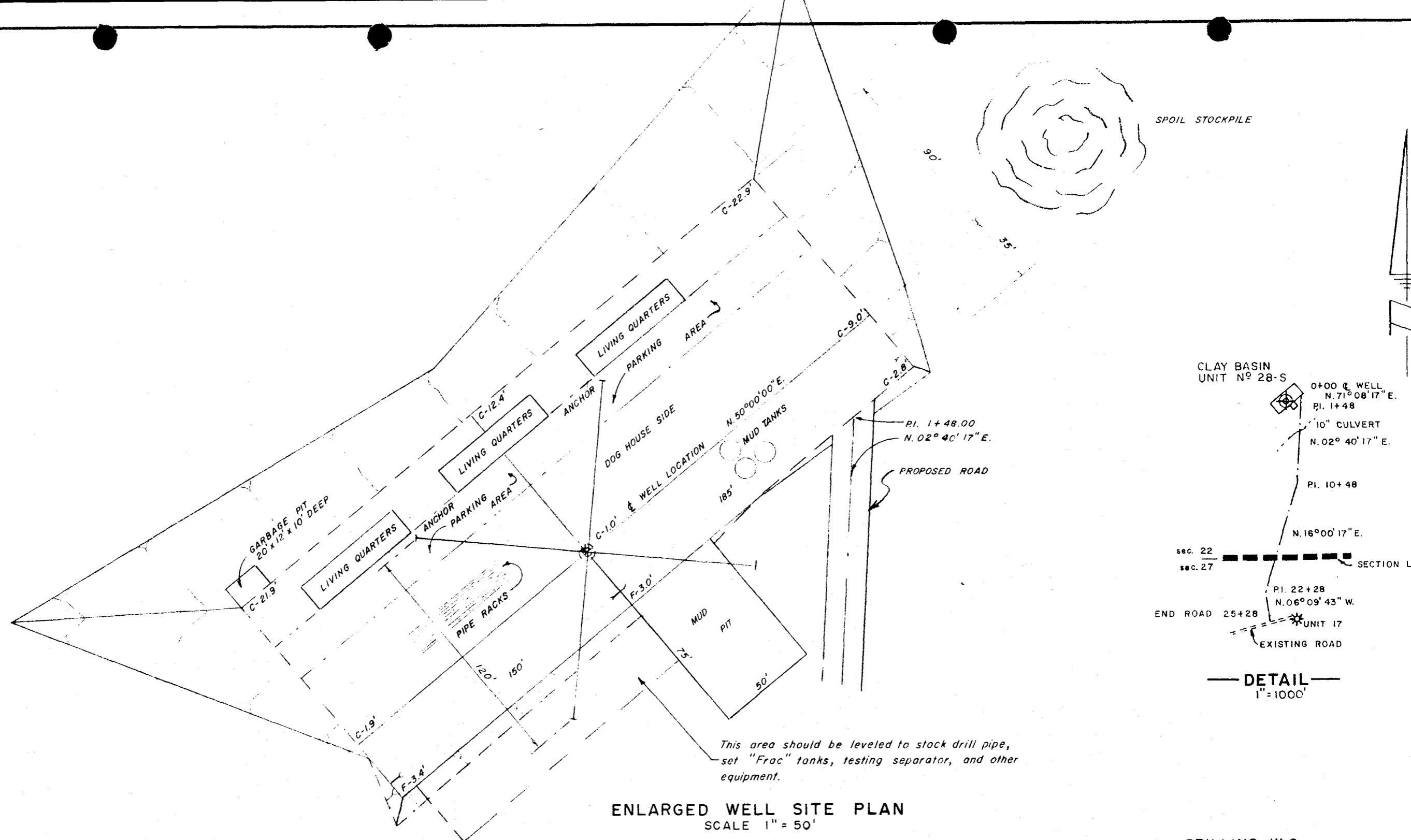
PROFILE SECTION - PROPOSED GRADED LOCATION

Scale
HORIZ. 1" = 50'
VERT. 1" = 20'



KEY MAP
Scale 1" = 100'

REVISIONS				MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING	
NO.	DESCRIPTION	DATE	BY		
				<p align="center"><i>PROFILES FOR CLAY BASIN UNIT WELL N° 28 - S WELL LOCATION SITE</i></p>	
				DRAWN: J-20-77 C.R.W. SCALE: AS NOTED	
				CHECKED: GEL	DRWG. NO. M-12370
				APPROVED: RWH	2/2



GENERAL NOTES:

At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, unlined. For well location profiles see drawing N° M-12370. Area for well location 0.96 acres.

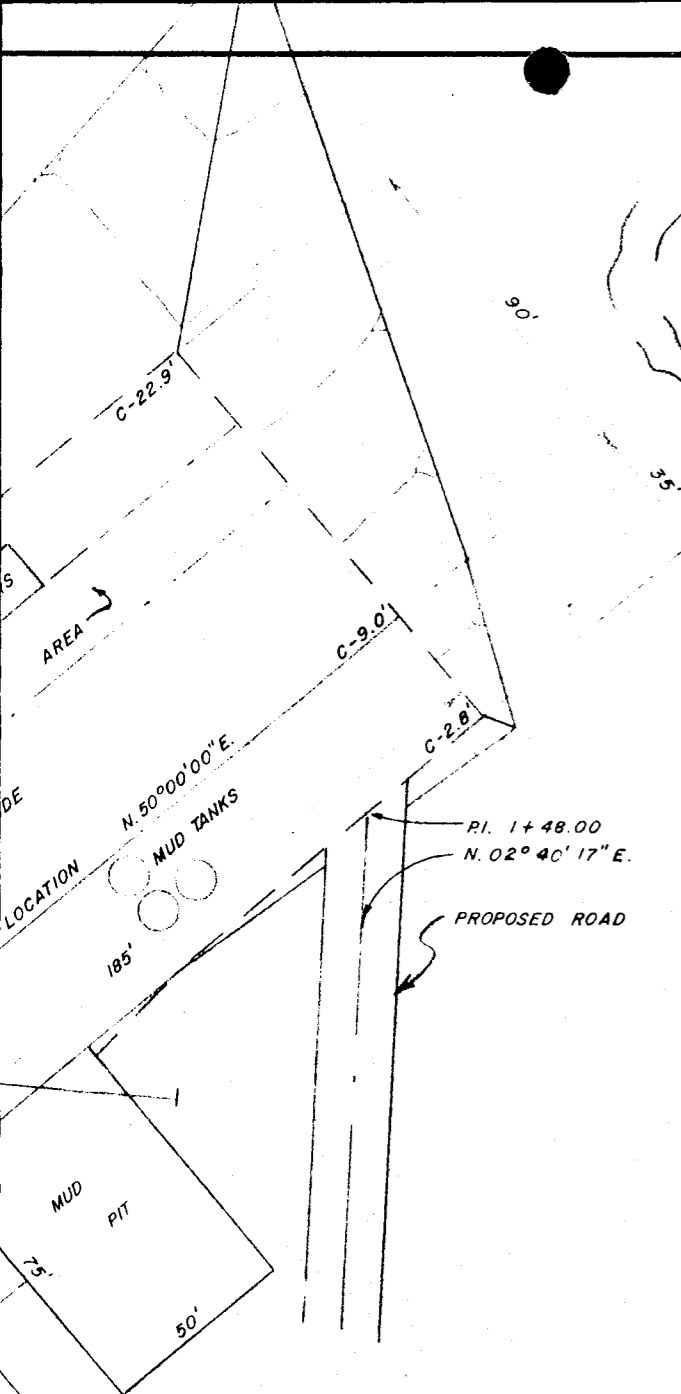
NOTE: For original location see drwg. N° M-12316

LEGEND

- ⊕ WELL
- ⊕ STONE CORNER
- ⊕ PIPE CORNER

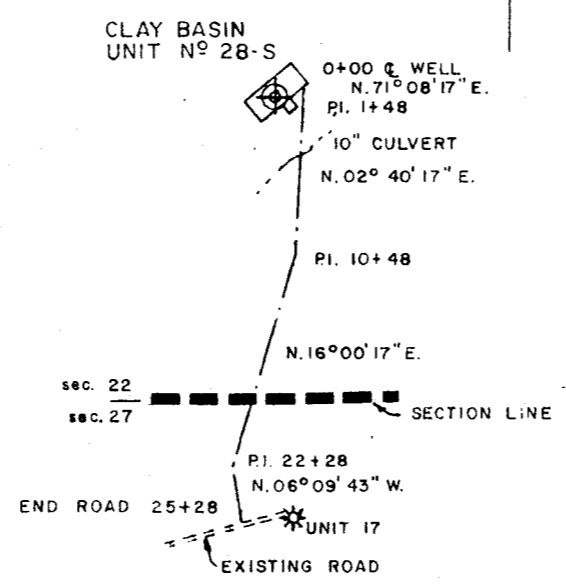
ENGINEERING RECORD

SURVEYED BY	J. D. Gottfredson 1-17-77
REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
LOCATION DATA	
FIELD	Clay Basin
LOCATION: N.W. 1/4, S.E. 1/4, Section 22, T.3N., R.24E. SALT LAKE MERIDIAN, 1584' FSL, 2155' FEL.	
Daggett County, Utah	
WELL ELEVATION: 6553 (As Graded) By Vertical Angle Observation From M.F.S. Co. Bench Mark Δ 122	

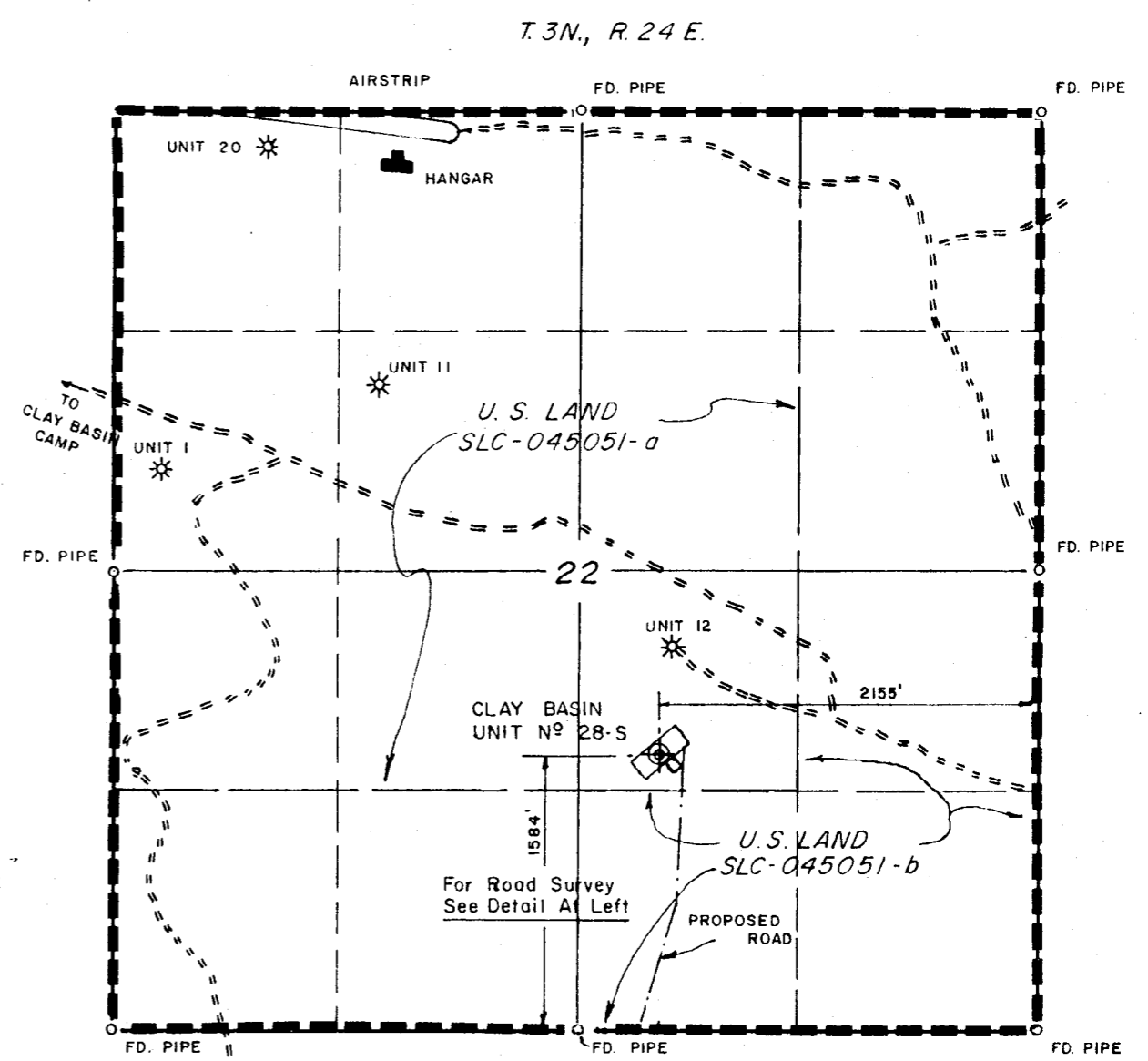


ENLARGED WELL SITE PLAN
SCALE 1" = 50'

SPOIL STOCKPILE



DETAIL
1" = 1000'



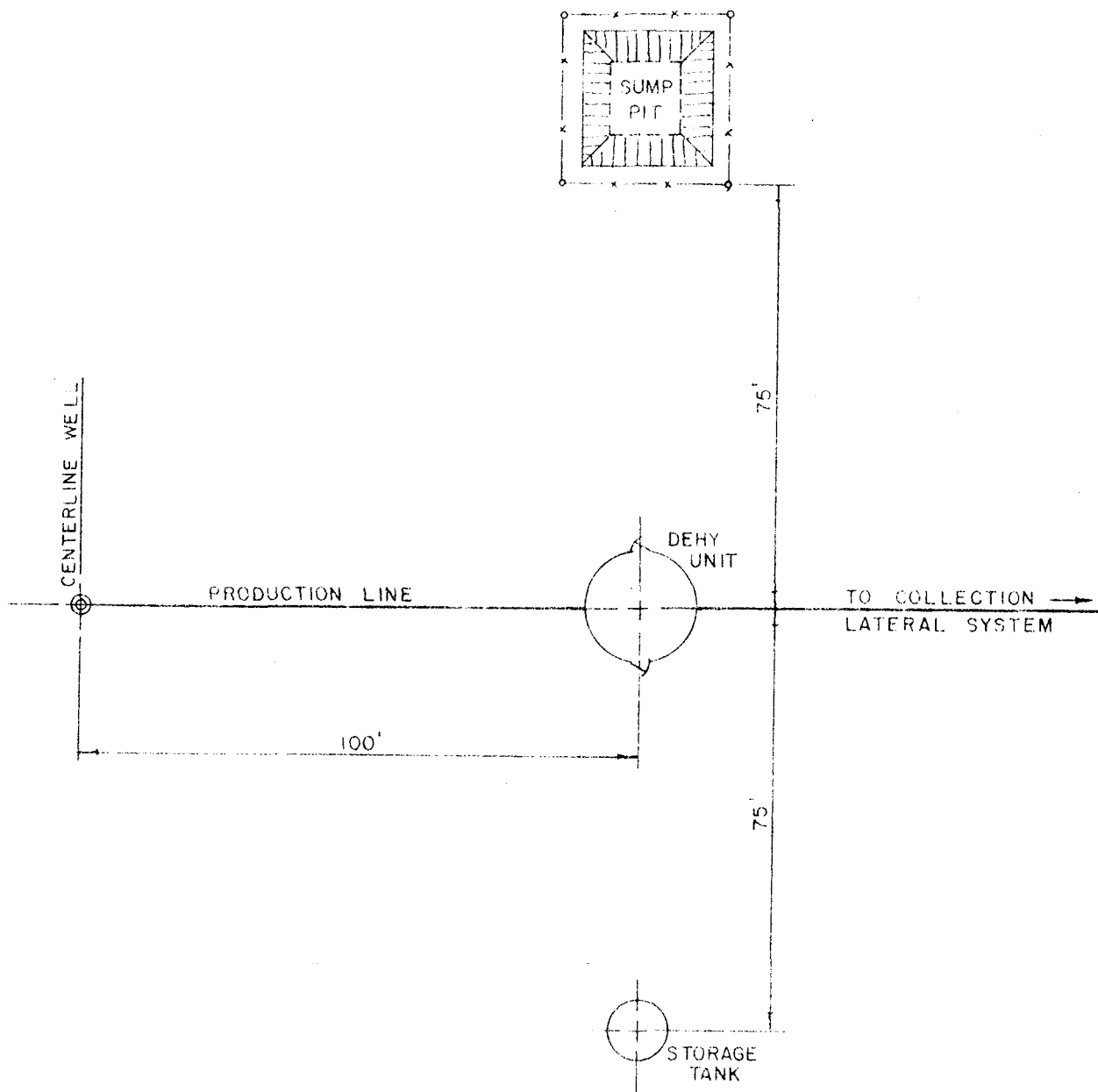
LOCATION PLAN
SCALE 1" = 1000'


This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

J. D. Gottfredson
ENGINEER
UTAH REGISTRATION L.S. N° 3521

DRILLING W.O.

LEGEND		ENGINEERING RECORD		REVISIONS				MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING	
⊕	WELL	SURVEYED BY	J. D. Gottfredson 1-17-77	NO.	DESCRIPTION	DATE	BY		
⊕	STONE CORNER	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>					CERTIFIED WELL LOCATION AND WELL SITE PLAN CLAY BASIN UNIT WELL N° 28-S	
⊕	PIPE CORNER	LOCATION DATA							
		FIELD	Clay Basin					DRAWN: 1-18-77 C.R.W. SCALE: AS NOTED	
		LOCATION: N.W. 1/4, S.E. 1/4, Section 22, T.3N., R. 24E. SALT LAKE MERIDIAN, 1584' FSL, 2155' FEL.						CHECKED: GEL	
		Daggett County, Utah						APPROVED: RWH	
		WELL ELEVATION: 6553 (As Graded) By Vertical Angle Observation From M.F.S. Co. Bench Mark Δ 122						DRWG. NO. M-12369	
								1/2	



REVISIONS				 MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING
NO.	DESCRIPTION	DATE	BY	
				TYPICAL PRODUCTION FACILITIES LAYOUT FOR CLAY BASIN UNIT WELL N° 28-S
DRAWN: 7/9/76 FJC CHECKED: G.L. SMF APPROVED: RWH				SCALE: NONE DRWG. NO. M-12205

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Jan. 28-

Operator: Mountain Fuel Supply

Well No. Clay Basin Unit #28-5

Location: Sec. 22 T. 3N R. 24E, County: Daggett

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

Checked By:

Administrative Assistant: [Signature]

Remarks: Unit - Old Order

Petroleum Engineer: [Signature]

Remarks:

Director: [Signature]

Remarks:

Include Within Approval Letter:

Bond Required [Signature] ☐

Survey Plat Required ☐

Order No. 164-1 ☒

Surface Casing Change ☐
to _____

Rule C-3(c), Topographical exception/company owns or controls acreage
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In Clay Basin Unit IV

Other:

[Signature]
☐ Letter Written

INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming

CITY

STATE

TO R. G. Myers

DATE February 24, 1977

SUBJECT Tentative Plan to Drill

Unit Well No. 28-5

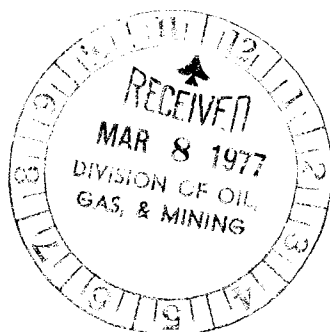
Clay Basin Field

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis prepared by D. L. Reese.

TMC/gm

Attachment

cc: R. D. Cash
E. R. Keller (3)
G. A. Peppinger (3)
A. J. Marushack
A. K. Zuehlsdorff
D. E. Dallas
A. J. Maser (3)
J. E. Adney
E. J. Widic
B. M. Steigleder
E. A. Farmer
D. L. Reese
U.S.G.S.
State
Paul Zubatch
P. E. Files (4)



From: C. R. Owen

Rock Springs, Wyoming

To: T. M. Colson

February 24, 1977

Tentative Plan to Drill
Unit Well No. 28
Clay Basin Field

This well will be drilled to total depth by _____ Drilling Company. One work order has been originated for the drilling and completion of this well, namely _____, Drill Unit Well No. 28, Clay Basin field, located in the NW SE Sec. 22, T. 3 N., R. 24 E., Daggett County, Utah. An 8-3/4-inch hole will be drilled to a total depth of 6025 feet and 7-inch O.D. casing run. It is planned to complete the well as a gas storage well in the Dakota formation. 100 feet of cores will be cut, starting at a point 50 feet from the bottom of the Mowry and through 50 feet of the Dakota storage sand. Surface elevation is at 6553 feet KBM.

1. Drill 12-1/4-inch hole to approximately 330 feet KBM.
2. Run and cement approximately 300 feet of 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing. The casing will be cemented by Halliburton with 165 sacks of regular Type "G" cement with 3 percent calcium chloride, which represents theoretical requirements plus 100 percent excess cement for 9-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Plan on leaving a 10 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 50 barrels of mud. Capacity of the 9-5/8-inch O.D. casing is 24 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 9-5/8-inch O.D. casing. Install a 2-inch extra heavy nipple, 6-inches long, and

a Demco (2000 psi WOG, 4000 psi test) ball valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipping up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing is 3520 psi.

4. Drill 8-3/4-inch hole to the total depth of 6025 feet or to such depth as the Geological Department may recommend. The mud will consist of 2 percent potassium chloride water to 4500 feet. Mud up with the potassium Dexdrid Drispac system at this point to allow a 3 cc. water loss at 5775 feet when the coring begins. The 3 cc. water loss will be maintained from the coring point to total depth at 6025 feet. If lost circulation is encountered only acid soluble lost circulation material will be used. A mud cleaner will be used from surface to total depth to remove undesirable solids from the mud system and to keep the mud weight to a minimum. A Company Geologist will be on location to check cutting samples; 10 foot samples from 5400 feet to total depth. 100 feet of cores will be cut from approximately 5775 feet to 5875 feet (50 foot Mowry core, 50 foot Dakota core). Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Mancos	Surface
Frontier	5,464
Mowry	5,675
Dakota	5,825
Total Depth	6,025

5. Run a dual induction laterolog (2-inch linear scale and 5-inch logarithmic scale) and a compensated density/gamma ray/caliper from total depth at 6025 feet to 4025 feet. The 2000 feet logged represents the minimum footage for each log.
6. Assuming gas storage zones of good quality are present as indicated by log analysis, go into hole with 8-3/4-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
7. Run 7-inch O.D. casing as outlined in Item No. 1, General Information, through the deepest producing zone as indicated by log analysis. A Baker 7-inch O.D., 8 round thread, Type G circulating differential fillup collar and guide shoe will be run as floating equipment. Rig up Halliburton and cement casing with 50-50 Pozmix "A" cement. Bring cement top behind the 7-inch O.D. casing 1000 feet above the uppermost producing zone as indicated by log analysis. Circulate 300 barrels of drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is approximately 238 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water. Bump plug with 2500 psi and hold for 15 minutes to pressure test casing. Minimum burst pressure of the 7-inch O.D., 23-pound, K-55 casing is 4360 psi.
8. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips in the 10-inch 3000 psi casing flange and record indicator weight. Install NSCo. Type B 10-inch 3000 psi by 6-inch 3000 psi

tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing is 3280 psi. Install a steel plate on the 6-inch 3000 psi tubing spool flange.

9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
12. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 7-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit on 2-3/8-inch O.D., 4.7-pound, V-55, 8 round thread, EUE tubing to check plugged back depth. Rig up and displace drilling mud out of hole with drip oil. Pull and lay down 2-3/8-inch O.D. tubing.
14. Rig up Dresser Atlas and run a casing potential profile log from total depth to the bottom of the surface casing at 300 feet KB.
15. Rig up Dresser Atlas perforating truck and perforate the Dakota storage sand with 2 HPF jumbo jet shots. The interval to be perforated will be chosen after the open hole logging has been reviewed and evaluated.
16. Rig up Dresser Atlas and run a Baker Model FB-1 (size 87-40) as follows:
 - Baker Model FB-1 (4.0-inch I.D. through packer)
 - 6 foot Baker millout extension (4.0-inch I.D.).
 - 10 foot Baker seal bore protector (4.0-inch I.D.) changeover.

6 feet 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "F" non-ported seating nipple (size 2.81).

6 feet 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "R" non-ported no-go seating nipple (size 2.75).

Set packer so that the bottom of the assembly is 30 feet above the perforations.

Perforations will be chosen after the open-hole logging is completed.

17. Install 4-1/2-inch rams in preventer. Pick up a Baker locator seal assembly and

a Baker Model "L" sliding sleeve and run tubing as follows:

1 NSCo. DP4-H-1 tubing hanger tapped 4-1/2-inch O.D., 8 round thread, LT&C, top and bottom.

4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C pup joints as required to space out.

Approximately 187 joints 4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing.

Baker Model "L" 4-1/2-inch O.D. sliding sleeve (size 3.812), in open position.

1 6 foot 4-1/2-inch O.D., 11.6-pound, J-55 pup joint.

Baker Model "G" locator seal assembly with 10 feet of seal extensions (I.D. 3.0-inches).

Land tubing in packer with 10,000 pounds compression. Space out and land in wellhead.

18. Install upper portion of wellhead.

19. Swab fluid out of wellbore. Run a short production test.

GENERAL INFORMATION

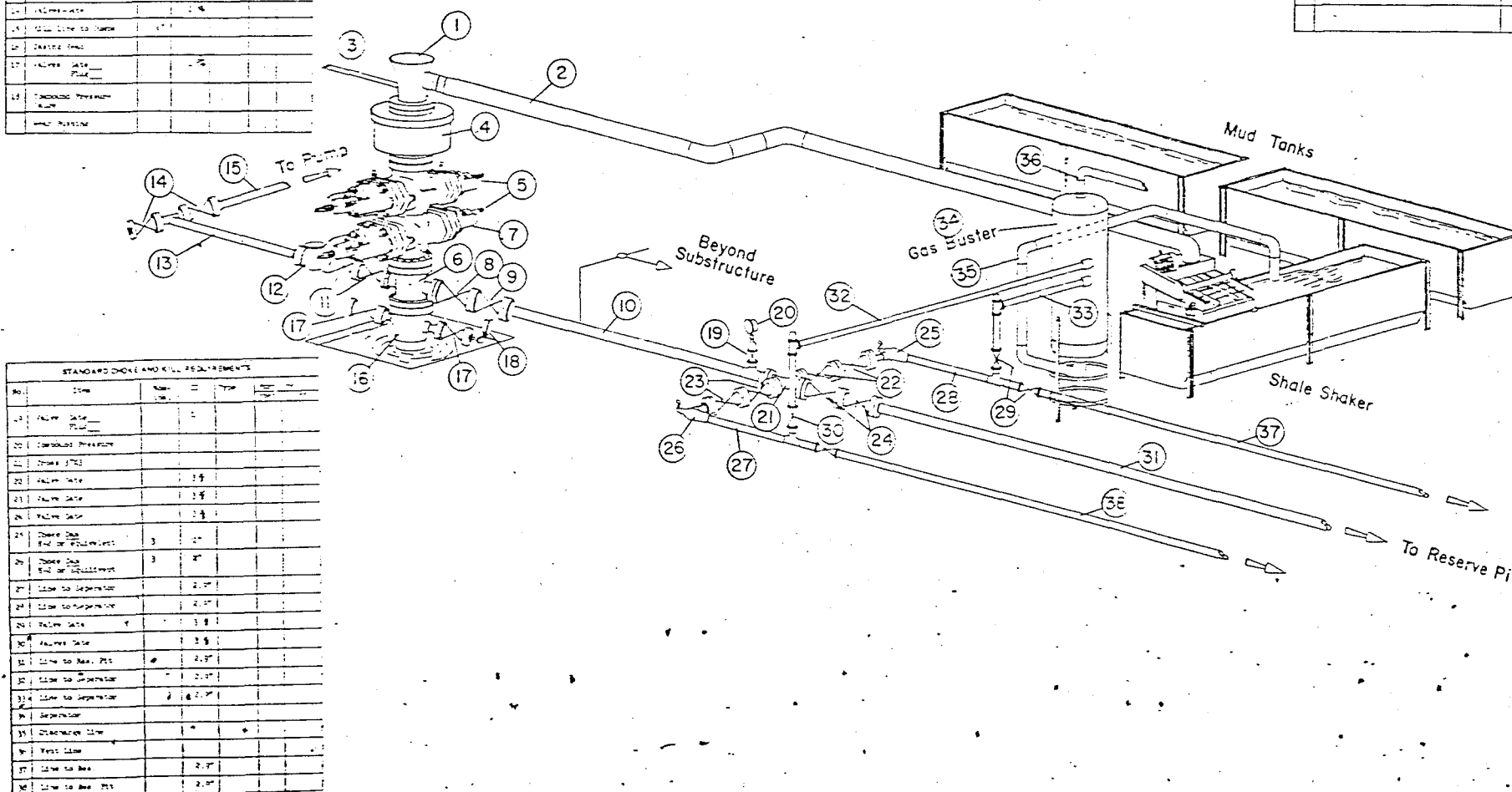
I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
9-5/8-inch O.D., 36-pound, H-40, 8 round thread, ST&C casing	330	Warehouse Stock
	<u>Production Casing</u>	
7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing (Bottom 400 feet will be rough coated)	6,100	To be purchased
	<u>Production Tubing</u>	
4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing	6,300	To be purchased

II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.

III. Well responsibility - D. L. Reese

STANDARD STACK BIRD, BROWN'S				
No.	Item	Quantity	Type	Price per Unit
1	Twisting Machine			
2	Flowline			
3	Mill up line	2"		
4	Accumulator		Special Cases Special	
5	Two wheels of new mill Qty. 1000 ft. each		2" 10"	
6	Twisting spools with 12 ft. 1" outside		Per spool	
7	48 Accumulators to 12 ft. and 100 ft. long from outside to inside			
8	Roller wire		1 1/2"	
9	48 Accumulators to 12 ft. and 100 ft. long		1 1/2"	
10	Roller wire		1 1/2"	
11	Roller wire		1 1/2"	
12	Roller wire		1 1/2"	
13	Roller wire	2"		
14	Roller wire		1 1/2"	
15	Roller wire to 100 ft.	1"		
16	Roller wire		1 1/2"	
17	Roller wire		1 1/2"	
18	Twisting Machine			
19	Twisting Machine			

[illegible][illegible]

Well Name Clay Basin Unit Well No. 28-S

Location _____

Wellhead Equipment	Size	Pressure Rating	Pressure Test
Surface Casing Flange	10	3,000	
Casing Spool			
Tubing Spool	10 x 6	3,000	6,000
Tubing Bonnet	10 x 4	3,000	6,000

Blow Out Preventer (Top to Bottom)	Size	PSI Rating	PSI Test	Reg	Range
	10	3,000	6,000		Blind
	10	3,000	6,000		4-1/2

Gas Buster	Yes	X No	De-gasser	Yes	X No

Kill or Control Manifold

2 Size	3,000 Pressure Rating	6,000 Pressure Rating Test	No Hydraulic Valves

Auxiliary Equipment	Kelly Cock	X Yes	No

Monitoring Equipment on Mud System	Yes	X No

Full Opening Drill Pipe Stubbing Valve on Floor	X Yes	No

Type of Drilling Fluid	X Water Base Mud	Air	Gas	Oil Base Mud

Anticipated Bottom Hole Pressure	500 PSI

DEVELOPMENT PLAN FOR U.S.C.S. APPROVAL OF SURFACE USE
MOUNTAIN FUEL SUPPLY COMPANY DRILLING WELLS

Well Name - Clay Basin Well No. 28-S

Field or Area - Clay Basin, Utah

1. Existing Roads -

- A) Proposed well site as staked - Refer to well location plan M-12316 for location of well, access road and directional reference stakes.
- B) Route and distance from nearest town or locatable reference point to where well access route leaves main road - Refer to lateral map M-9030 From the Wyoming-Utah state line to Rock Springs, Wyoming is 50 miles.
- C) Access road to location - Refer to lateral map M-9030 and well site map M-12316 for access road from Wyoming-Utah state line to Clay Basin unit No. 28-S.
- D) If exploratory well, all existing roads within a 3-mile radius of well site - Not an exploratory well.
- E) If development well, all existing roads within a 1-mile radius - Refer to lateral map M-9030 for existing roads.
- F) Plans for improvement and/or maintenance of existing roads - No existing roads will be improved. All existing roads will be maintained as needed by Mountain Fuel equipment.

2. Planned Access Road -

- A) Width - 16' wide from shoulder to shoulder.
- B) Maximum grade - The maximum grade on the road is 8 percent.
- C) Turnouts - No turnouts will be constructed.
- D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.
- E) Location and size of culverts and description of major cuts and fills -
 - 1) For culvert size and location see drawing No. M-12316.
 - 2) Large side hill cut over the entire length of the access road to the location.
- F) Surfacing material - No surfacing material will be needed either on the road or location.
- G) Necessary gates, cattle guards or fence cuts - No cattle guards, gates, or fence cuts are anticipated.
- H) New or reconstructed roads - The new road is center line flagged.

3. Location of Existing Wells -

- A) Water wells - None within a one mile radius.
- B) Abandoned wells - None within a one mile radius.
- C) Temporarily abandoned wells - None within a one mile radius.

- D) Disposal wells - None within a one mile radius.
 - E) Drilling wells - Both Clay Basin 24 and 25 are proposed wells and should be drilling soon.
 - F) Producing wells - Clay Basin unit well Nos 1, 12, 15, 17, 18, & 20 are productive gas well within a one mile radius.
 - G) Shut-in wells - No shut-in wells within a one mile radius.
 - H) Injection wells - Clay Basin wells 2, 4, 6, & 11 are injection/withdrawal wells.
 - I) Monitoring or observation wells for other resources - No monitoring or observation wells within a one mile radius.
4. Location of Existing And/Or Proposed Facilities - Refer to lateral map M-9030.
- A) 1) Tank batteries - No tank batteries within a one mile radius..
 - 2) Production facilities - Each productive gas well has its own production equipment. Also, a compressor plant is located near unit 3. Also, a compressor plant for injection is being constructed near unit 3.
 - 3) Oil gathering lines - No oil gathering lines are located in the Clay Basin area.
 - 4) Gas gathering lines - Refer to area map M-9030. Laterals Nos. 55, 46, and 47 are buried gas lines. Lateral Nos. 270, 273, and 403 are surface gas lines.
 - 5) Injection lines - Several injection/withdrawal lines are located within the area. Refer to lateral map M-9030.
 - 6) Disposal lines - No disposal lines are located within a one mile radius.
- B) 1) Proposed location and attendant lines by flagging if off the well pad - The well will be used as a gas injection/withdrawal well. A line will be constructed from the well to the compressor site as shown on drawing M-9030. The line will be a buried 6 inch.
- 2) Dimensions of facilities - Refer to drawing No. M-12205.
- 3) Construction methods and materials - No construction materials are anticipated. The dirt work will be done with a backhoe, i.e., ditches, dehy base, tank base, etc.
- 4) Protective measures and devices to protect livestock and wildlife - The sump pit will be fenced as shown on drawing M-12205.
- C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - After construction is complete, areas of non-use will be restored and seeded.
5. Location and Type of Water Supply -
- A) Location of water - The water withdrawal point on Red Wash is located in the SW 1/4 of Section 22, T.12N., R. 105W. of the 6th P.M., Sweetwater County, Wyoming.
 - B) Method of transporting water - Water will be hauled by tank truck from Red Creek to Unit Well No. 24. The well access road, as shown on drawing M-9030, will be used as the water haul road.

- C) Water well to be drilled on lease - No water well will be drilled.
6. Source of Construction Material -
- A) Information - No construction material will be used.
- B) Identify if from Federal or Indian land -
- C) Where materials are to be obtained and used -
- D) Access roads crossing Federal or Indian lands -
7. Method for Handling Waste Disposal -
- A-D) Cutting, drilling fluids, produced fluids, and sewage will be placed in the mud pit.
- E) Garbage and other waste material will be placed in the burn pit.
- F) After drilling operations have been completed, the location will be cleared of all litter and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be pumped out and dumped on the existing roads. The mud pit will be covered over.
8. Ancillary Facilities - There now is a camp approximately 1/2 mile to the east with housing and general camp facilities including a landing strip. Water is piped to the camp from a spring to the west. See drawing M-9030.
9. Well Site Layout - See drawing Nos. M-12316 and M-12317.
10. Plans for Restoration of Surface -
- A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. The reserve pit liquids will be pumped out and dumped on the existing roads.
- B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.
- C) Prior to rig release, pits will be fenced and so maintained until clean up.
- D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.
- E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.
11. Other Information - The location lies immediately at base of a hill. The
- A) ground slopes to the south at about 10 percent. The soil is sandy clay with gravel rock. The vegetation is salt sage, sage brush and native grass. The access road will have a large side hill cut over the entire length of the road, and the soil and vegetation are the same as the above.
- B) The surface belongs to the U.S. Government.
- C) Water can be located in Red Creek. The Clay Basin camp is occupied by Mountain Fuel personnel. No historical, archeological or cultural sites are in the area to my knowledge.
12. Lessee's or Operator's Representative -
D. E. Dallas, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, telephone 307-362-5611.

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Mountain Fuel Supply Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date November 22, 1976

Name D.E. Dallas

Title Drilling Superintendent

cdk

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. SL - 045051 a	
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -	
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1584' FSL, 2155' FEL NW SE		8. FIRM OR LEASE NAME Unit Well	
14. PERMIT NO. API No.: 43-009-30020		9. WELL NO. 28-S	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6574.65' GR 6553'		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage	
		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA NW SE 22-3N-24E	
		12. COUNTY OR PARISH Daggett	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Depth 1100', spudded March 7, 1977, landed 9-5/8"OD, 23#, K-55, casing at 306.88' KBM and set with 175 sacks of regular type G cement treated with 3% calcium chloride on 3-7-77.

18. I hereby certify that the foregoing is true and correct
SIGNED B. G. Myers TITLE Manager, Drilling and Petroleum Engineering DATE March 9, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Gas Storage
2. NAME OF OPERATOR
Mountain Fuel Resources, Inc.
3. ADDRESS OF OPERATOR
P. O. Box 1129, Rock Springs, Wyoming 82901
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1584' FSL, 2155' FEL NW SE

14. PERMIT NO.
API No.: 43-009-30020
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 6574.65' GR 6553'

SL - 045051 a
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-
7. UNIT AGREEMENT NAME
Clay Basin Gas Storage Agreement
8. FARM OR LEASE NAME
Unit Well
9. WELL NO.
28-S
10. FIELD AND POOL, OR WILDCAT
Clay Basin Gas Storage
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW SE 22-3N-24E
12. COUNTY OR PARISH
Daggett
13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐ ABANDON* ☐
REPAIR WELL ☐ CHANGE PLANS ☐
(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐ REPAIRING WELL ☐
FRACTURE TREATMENT ☐ ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐ ABANDONMENT* ☐
(Other) Supplementary history ☒
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 5983', landed 7"OD, 23#, K-55, casing at 5944.60' KBM and set with 800 sacks 50-50 Pozmix cement treated with 2% gel, cement in place 3-22-77, rig released 3-22-77, waiting on completion tools.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE Manager, Drilling and Petroleum Engineering

DATE April 4, 1977

(This space for Federal or State office use)

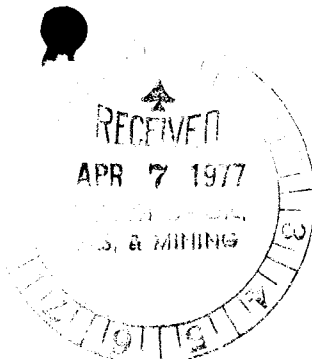
APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

From: R. L. Rasmussen

To: T. M. Colson



Rock Springs, Wyoming

April 1, 1977

Tentative Plan to Complete
Unit Well No. 28
Clay Basin Field

The above well was drilled to a total depth of 5983 feet KBM on March 23, 1977 by Mountain Fuel Resources. The well was drilled as a gas storage well in the Dakota formation. The following is a tentative plan to complete the above-captioned well.

NOTE: KB is 21.65 feet above ground level.

1. Move in and rig up a completion rig.
2. Install a 6-inch 5000 psi hydraulically operated double gate BOP with blind rams in bottom and 2-3/8-inch tubing rams on top.
3. After a WOC time of at least 50 hours, rig up Dresser Atlas and run cement bond log and perforating formation control log from plugged back depth to top of cement behind the 7-inch O.D. casing.
4. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit and casing scraper dressed for 7-inch O.D., 23-pound casing on 2-3/8-inch O.D., 4.6-pound, J-55 tubing to plug back depth. Rig up and displace water out of hole with drip oil. Approximately 230 barrels of drip oil will be required. Pull and lay down tubing, casing scraper, and 6-1/4-inch bit. Install 4-1/2-inch tubing rams.
5. Rig up Dresser Atlas perforating truck and perforate the Dakota storage sand with two Jumbo Jet shots per foot as follows:

5793 feet to 5823 feet KBM

Measurements are from the Schlumberger formation density log dated March 19, 1977. Depths must be correlated with the Dresser Atlas cement bond log dated March 24, 1977.

6. Run a Baker Model FB-1 (size 87-40) packer as follows:

1 Baker Model FB-1 packer (4.0-inch I.D. through packer).

6 foot Baker millout extension (4.0-inch I.D.).

10 foot Baker seal bore protector (4.0-inch I.D.) changeover.

6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round thread, EUE pup joint.

1 Baker Model "F" non-ported seating nipple (size 2.81).

6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round thread, EUE pup joint.

1 Baker Model "R" non-ported no-go seating nipple (size 2.75).

Set packer so that the bottom of the assembly is 30 feet above the perforations.

7. Pick up a Baker locator seal assembly and a Baker Model "L" sliding sleeve and run tubing as follows:

1 NSCo. H-1 tubing hanger tapped 4-1/2-inch O.D., 8 round thread, LT&C, top and bottom.

4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C pup joints as required to space out.

Approximately 155 joints 4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing.

Baker Model "L" 4-1/2-inch O.D. sliding sleeve (size 3.812), in open position.

1 6 foot 4-1/2-inch O.D., 11.6-pound, J-55 pup joint.

Baker Model "G" locator seal assembly with 10 feet of seal extensions (I.D. 3.0-inches).

Land tubing in packer with 10,000 pounds compression. Space out and land in wellhead.

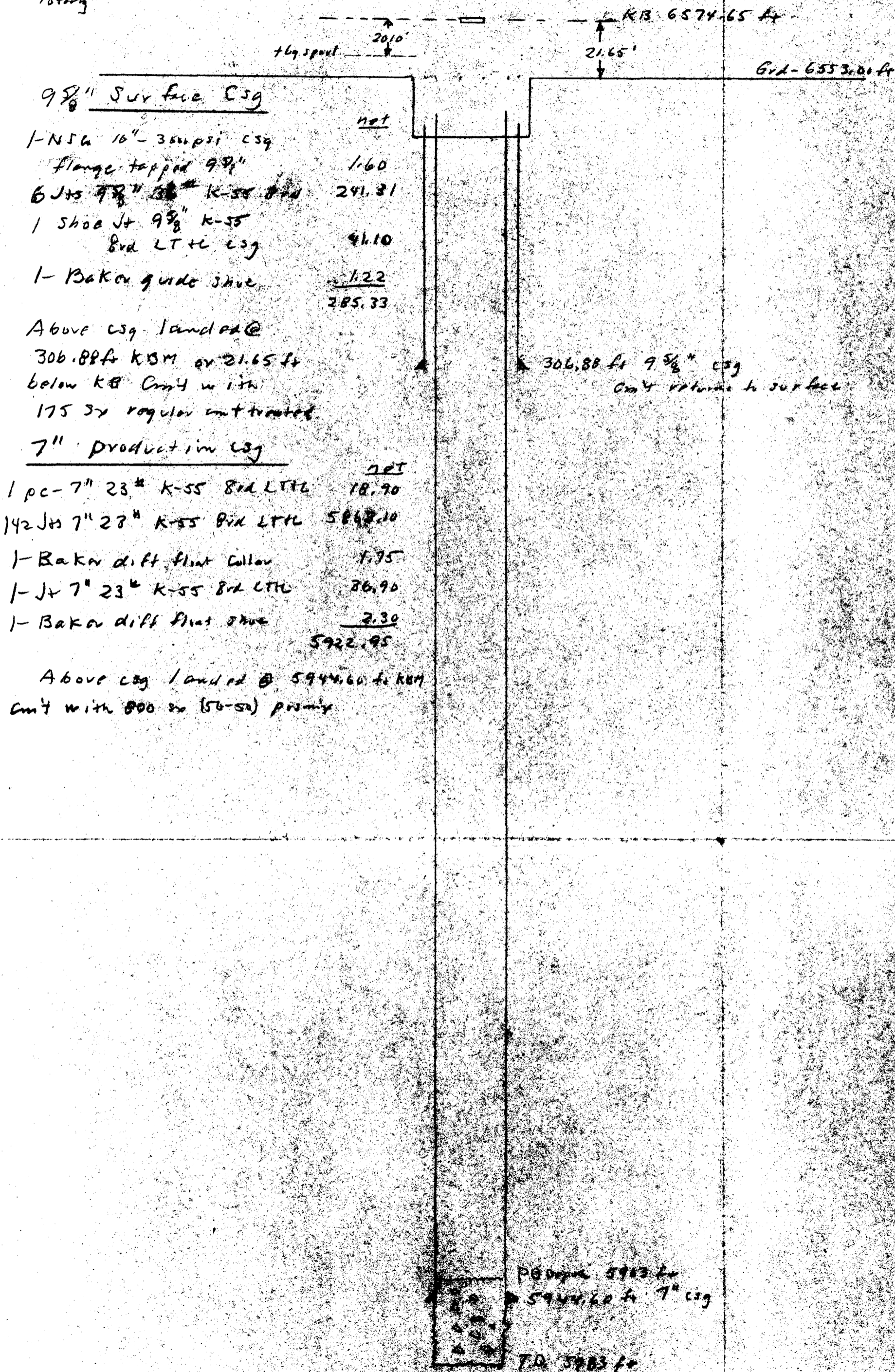
8. Install upper portion of wellhead.

9. Swab fluid out of wellbore. Run a short production test.

not drawn
to scale
Drilled by MFSG
rotary

Present Status of Well
UNIT WELL No 28-S
CLAY BASIN FIELD

4-1-77/995



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <u>Gas Storage</u>
b. TYPE OF COMPLETION:					
NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.					
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1584' FSL, 2155' FEL NW SE At top prod. interval reported below At total depth					
14. PERMIT NO. -			DATE ISSUED -		
API No.: 43-009-30020					
15. DATE SPUDDED 3-7-77	16. DATE T.D. REACHED 3-20-77	17. DATE COMPL. (Ready to prod.) 4-8-77	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 6574.65' GR 6553'	19. ELEV. CASINGHEAD -	
20. TOTAL DEPTH, MD & TVD 5983'	21. PLUG, BACK T.D., MD & TVD 5885'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY →	ROTARY TOOLS 0-5983'	CABLE TOOLS -
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5793-5823' - Dakota					25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog, Comp. Formation Density					27. WAS WELL CORED Yes
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	23	306.88	12-1/4	175	0
7	23	5944.60'	8-3/4	800	0
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
4-1/2	5710.64	5693			
31. PERFORATION RECORD (Interval, size and number) 5793-5823', jumbo jet, 2 shots per foot			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
33.* PRODUCTION					
DATE FIRST PRODUCTION SI		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) GAS STORAGE			WELL STATUS (Producing or shut-in) SI
DATE OF TEST --	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY
35. LIST OF ATTACHMENTS Logs as above, Well Completion and Well Lithology to be sent at a later date.					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records Manager, Drilling and					
SIGNED <u>P. B. [Signature]</u>		TITLE <u>Petroleum Engineering</u>		DATE <u>April 18, 1977</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Log tops:		
				Frontier	5407'	
				Mowry	5609'	
				Dakota	5772'	

COMPLETION REPORT

Well: Clay Basin Unit No. 28-S Date: April 13, 1977

Area: Clay Basin Field Lease No: _____

☐ New Field Wildcat ☒ Development Well ☐ Shallower Pool Test
☐ New Pool Wildcat ☐ Gas Storage ☐ Deeper Pool Test
☐ Extension

Location: 1584 feet from South line, 2155 feet from East line
NW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 22, Township 3 North, Range 24 East

County: Daggett State: _____

Operator: Mountain Fuel Resources

Elevation: KB 6574.65 Gr 6553 Total Depth: Driller 5983 Log 5911

Drilling Commenced: March 7, 1977 Drilling Completed: March 20, 1977

Rig Released: March 22, 1977 Well Completed: April 8, 1977

<u>Sample Tops: (unadjusted)</u>		<u>Log Tops:</u>	
Frontier	5408	Mancos	Surface
Mowry	5606	Frontier	5407
Dakota	5744	Mowry	5609
		Dakota	5772

Sample Cuttings: None

Status: Gas Storage injection-withdrawal well

Producing Formation: Dakota

Perforations: 5793-5823 with two jumbo jet shots per foot

Stimulation: None

Production: None

Plug Back Depth: 5885

Plugs: None

Hole Size: 12 1/2" to 320; 8 3/4" to 5707; 8 5/8" to 5737; 8 1/2" to 5983

Casing/Tubing: 9 5/8" to 306.88 w/175 sacks; 7" to 5944.60 w/800 sacks; 4 1/2" to 5710.64

Logging - Mud: None

Mechanical: DLL (290-5866), FDC (3950-5910)

Contractor: Loffland Brothers Company

Completion Report Prepared by: G.G. Francis

Remarks: API 4300930020

COMPLETION REPORT (cont.)

Page 2

Well: Clay Basin Unit No. 28-S

Area: Clay Basin Field

Cored Intervals (recovery): 5699-5707 (5), 5707-5737 (30)

Tabulation of Drill Stem Tests: None

<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FFP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
------------	-----------------	------------	-------------------	--------------------	-------------------	--------------------	------------	-----------------------	----------------

FIELD Clay Basin Utah COUNTY Daggett SEC. 22 T. 3N R. 24E

COMPANY Mountain Fuel FARM _____ WELL NO. 28-S

LOCATION 1584' FSL, 2155' FEL, NW SE ELEV. KB 6574.65 GR 6553

DRILLING COMMENCED March 7, 1977 COMPLETED March 20, 1977

RIG RELEASED March 22, 1977 TOTAL DEPTH 5983

CASING RECORD 9-5/8" to 306.88 w/175 sacks; 7" to 5944.60 w/800 sacks

TUBING RECORD 4-1/2" to 5710.64

PERFORATIONS 5793-5823 with two jumbo jet shots per foot

I. P. GAS OIL

SANDS _____

SHUT-IN SURFACE PRESSURES _____

REMARKS _____

=====

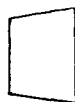
	FROM	TO
<u>Core #1 (5699-5707) Rec. 5 ft.</u>		
Shale, medium gray, fish scales common, hard with vertical and oblique fractures common.	5699	5705
No recovery.	5705	5707
<u>Core #2 (5707-5737.8) Rec. 30.8 ft.</u>		
Shale, medium gray, calcareous, fish scale fossils common throughout, hard and brittle with vertical fractures in upper 2.0 ft.	5707	5711
Bentonite.	5701	5752
Shale, medium gray, fish scale fossils common to rare, brittle with oblique and vertical fractures common throughout.	5712	5718
Shale, light gray, slightly calcareous, contorted lamina throughout.	5718	5719.2
Shale, medium gray, slightly calcareous, structureless.	5719.2	5719.7
Bentonite.	5719.7	5720
Shale, medium gray and light gray, slightly calcareous, with prominent boudinage structure.	5720	5720.6
Shale, medium gray, slightly calcareous, hard and brittle, with abundant vertical to oblique fractures throughout.	5720.6	5737.8

Clay Basin # 28-3. Sec 22, 3N, 24E

July 14 June 88

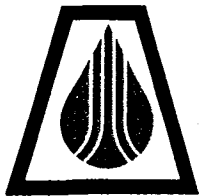
N

○ well head.



meter run.

access
road.



QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400
June 23, 1988

CERTIFIED MAIL

RETURNED RECEIPT REQUESTED

#P 879 571 459

Bureau of Land Management
Utah State Office
CFS Financial Center
324 S. State Street
Salt Lake City, UT 84111-2303

Re: Name Change
Mountain Fuel Resources, Inc.
to Questar Pipeline Company

Gentlemen:

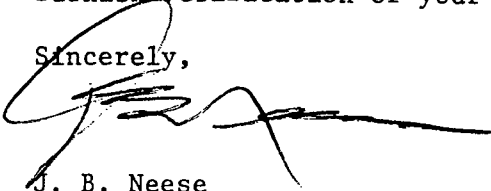
Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

Normal on gas hold.
with CA
CA well - RT - OR's - Mt. Fuel Resources
U-9712-A - Questar *100%*
U-11246 - *Assignment pending to "Questar Energy Co."*
SLC-045051(A) > OR'S
SLC-045051(B) > OR'S
SLC-045053(A) > OR'S
SLC-045053(B) > OR'S
SLC-062508 - OR'S
SLC-070555 - OR'S
SLC-070555(A) - OR'S
? Agreement No. 14-08-0001-16009
(Clay Basin Gas Storage Agreement)
Vernal

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,


J. B. Neese
Senior Landman

JBN/sdg

Enclosure

List of Leases

Overriding Royalties

U-09712-A
U-011246

Operating Rights

SL-045051-A & B
SL-045053-A & B
SL-062508
SL-0700555
SL-070555-A
SL-045049-A & B

Clay Basin Gas Storage Agreement
Agreement No. 14-08-0001-16009

3100
U-09712-A
et al
(U-942)

C. Seare
3/9/89

DECISION

Questar Pipeline Company : Oil and Gas Leases
P.O. Box 11450 : U-09712-A et al
Salt Lake City, Utah 84147 :

Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

/s/ M. Willis

ACTING Chief, Minerals
Adjudication Section

Enclosure
List of Leases

cc: All District Offices, Utah
MMS, AFS
MMS, BRASS
920, Teresa Thompson
Clay Basin Unit File

CSeare:sl 3/9/89:1642f

RECEIVED

JAN 28 2004

DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

3/7/1988

FROM: (Old Operator):

N1070-Wexpro Company
 PO Box 45360
 Salt Lake City, UT 84145-0360
 Phone: 1-(801) 534-5267

TO: (New Operator):

N7560-Questar Pipeline Company
 PO Box 11450
 Salt Lake City, UT 84147
 Phone: 1-(801) 530-2019

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
CLAY BASIN UNIT 39-S	21	030N	240E	4300930030	1025	Federal	GS	A
CLAY BASIN UNIT 48-S	21	030N	240E	4300930044	1025	Federal	GS	A
CLAY BASIN UNIT 50-S	21	030N	240E	4300930046	1025	Federal	GS	A
CLAY BASIN UNIT 51-S	21	030N	240E	4300930047	1025	Federal	GS	A
CLAY BASIN UNIT 58-S	21	030N	240E	4300930054	1025	Federal	GS	A
CLAY BASIN UNIT 60-S	21	030N	240E	4300930056	1025	Federal	GS	A
CLAY BASIN U 11 (RD MURPHY 6-W)	22	030N	240E	4300915635	1025	Federal	GS	A
CLAY BASIN 28-S	22	030N	240E	4300930021	1025	Federal	GS	A
CLAY BASIN UNIT 32-S	22	030N	240E	4300930023	1025	Federal	GS	A
CLAY BASIN UNIT 36-S	22	030N	240E	4300930027	1025	Federal	GS	A
CLAY BASIN UNIT 54-S	22	030N	240E	4300930050	1025	Federal	GS	A
CLAY BASIN U 6 (RD MURPHY 3)	23	030N	240E	4300915630	1025	Federal	GS	A
CLAY BASIN U 10 (1 CL SPARKS)	23	030N	240E	4300915634	1025	Federal	GS	A
CLAY BASIN UNIT 29-S	23	030N	240E	4300930020	1025	Federal	GS	A
CLAY BASIN UNIT 31-S	23	030N	240E	4300930022	1025	Federal	GS	A
CLAY BASIN UNIT 44-S	23	030N	240E	4300930040	1025	Federal	GS	A
CLAY BASIN UNIT 45-S	23	030N	240E	4300930041	1025	Federal	GS	A
CLAY BASIN UNIT 57-S	24	030N	240E	4300930053	1025	Federal	GS	A
CLAY BASIN UNIT 41-S	26	030N	240E	4300930032	1025	Federal	GS	A
CLAY BASIN UNIT 42-S	26	030N	240E	4300930033	1025	Federal	GS	A
CLAY BASIN UNIT 43-S	26	030N	240E	4300930039	1025	Federal	GS	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/13/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/13/2004
3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 1/14/2004
4. Is the new operator registered in the State of Utah: YES Business Number: 649172-0142
5. If NO, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 3/9/1989

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on:

n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on:

n/a

10. **Underground Injection Control ("UIC"** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on:

1/29/2004

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on:

1/29/2004

3. Bond information entered in RBDMS on:

1/29/2004

4. Fee wells attached to bond in RBDMS on:

1/29/2004

5. Injection Projects to new operator in RBDMS on:

n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number:

965003032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number:

965002976

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number:

n/a

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number

965003033

2. The **FORMER** operator has requested a release of liability from their bond on:

N/A

The Division sent response by letter on:

N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/29/2004

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Gas Storage Well		5. LEASE DESIGNATION AND SERIAL NO. SL - 045051 a	
2. NAME OF OPERATOR Questar Pipeline Company (previously MFS)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 11450, Salt Lake City, Utah 84147		7. UNIT AGREEMENT NAME Clay Basin Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1584' FSL, 2155' FEL NW		8. FARM OR LEASE NAME Unit Well	
14. PERMIT NO. API No.: 43-009-30020		9. WELL NO. 28-S	
15. ELEVATIONS (Show whether OF, RT, GR, etc.) KB 6574.65' GR 6553'		10. FIELD AND POOL, OR WILDCAT Clay Basin	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW SE 22-3N-24E	
		12. COUNTY OR PARISH Daggett	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Run chemical injection mandrel <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

The purpose of the workover is to run chemical injection valve with 1/4" control line to make continuous methanol injection possible during withdrawal. The program consists of the following:

1. Set plug in "R" nipple.
2. Circulate hole with CaCl_2 water.
3. Pull the 4 1/2" tubing with seal assembly.
4. Rerun tubing with chemical injection mandrel and 1/4" control line.
5. Remove the water from the hole.
6. Pull plug.

This workover is planned to be carried out in August, September or October of 1993.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 6-21-93
BY: J. Matthews

RECEIVED

JUN 18 1993

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Staff Petroleum Engineer

DATE June 17, 1993

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P.O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400 • FAX (801) 530-2570

November 18, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Gentlemen:

Please find attached "Sundry Notices" for seven wells in Clay Basin. The workover in these wells was started on August 30, 1993 and completed on October 27, 1993.

If you have any questions, please call me at (801) 530-2006.

Sincerely,

Zoltan Bessenyei
Staff Petroleum Engineer

ZB:dc
RE3007

NOV 22 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
SL - 045051 a

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER Gas Storage Well

2. NAME OF OPERATOR
Questar Pipeline Company (previously MFS)

3. ADDRESS OF OPERATOR
P.O. Box 11450, Salt Lake City, UT 84147

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1584' FSL, 2155' FEL NW

14. PERMIT NO. API No.: 43-009-30020
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6574.65' GR 6553'

7. UNIT AGREEMENT NAME
Clay Basin Unit

8. FARM OR LEASE NAME
Unit Well

9. WELL NO.
28-S

10. FIELD AND POOL, OR WILDCAT
Clay Basin

11. SEC. T., R., M., OR BLK. AND
SURVEY OR AREA

NW SE 22-3N-24E

12. COUNTY OR PARISH 13. STATE
Daggett Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

Ran chemical injection mandrel

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The purpose of the workover was to run chemical injection valve with 1/4" control line to make continuous methanol injection possible during withdrawal. The program consisted of the following:

1. Set plug in "F" nipple.
2. Circulated hole with CaCl₂ water.
3. Pulled the 4 1/2 tubing with seal assembly.
4. Ran pipe analysis log.
5. Cut off the tail pipe with the plug in the "F" nipple.
6. Ran Otis packer with tail pipe and two sitting nipples above the old one.
7. Reran tubing with chemical injection mandrel and 1/4" control line.
8. Removed the water from the hole.
9. Pulled plug.

This workover was carried out in September of 1993.

NOV 22 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Staff Petroleum Engineer

DATE

November 17, 1993

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	Twncshp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4300915629	20	030N	240E	Clay Basin Unit 5	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915627	16	030N	240E	Clay Basin Unit 3	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930018	16	030N	240E	Clay Basin Unit 27-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930048	16	030N	240E	Clay Basin Unit 52-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930049	16	030N	240E	Clay Basin Unit 53-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930055	16	030N	240E	Clay Basin Unit 59-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930026	17	030N	240E	Clay Basin Unit 35-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930031	20	030N	240E	Clay Basin Unit 40-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930045	20	030N	240E	Clay Basin Unit 49-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915626	21	030N	240E	Clay Basin Unit 2	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930015	21	030N	240E	Clay Basin 24-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930016	21	030N	240E	Clay Basin Unit 25-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930017	21	030N	240E	Clay Basin Unit 26-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930019	21	030N	240E	Clay Basin 30-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930024	21	030N	240E	Clay Basin Unit 33-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930030	21	030N	240E	Clay Basin Unit 39-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930044	21	030N	240E	Clay Basin Unit 48-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930046	21	030N	240E	Clay Basin Unit 50-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930047	21	030N	240E	Clay Basin Unit 51-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930054	21	030N	240E	Clay Basin Unit 58-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930056	21	030N	240E	Clay Basin Unit 60-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915635	22	030N	240E	Clay Basin U 11 (RD Murphy)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930021	22	030N	240E	Clay Basin 28-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930023	22	030N	240E	Clay Basin Unit 32-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930027	22	030N	240E	Clay Basin Unit 36-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage

Note to file: These entity numbers
were changed to compliment the
operator correction from 3/7/98